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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRSK/W.No.09/CSR-02/10811/CEMENT/2015-16 Date: 27.02.2016

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Mr. K.R. Santhosh Kumar,** # 04, 1st A Main, V. Pura, AVR Block, Virupakshapura, Vidyaranyapura (P), Bangalore.
***NAME OF THE WORK**	:	Construction of balance storm water drain at Ganeaeshwara Layout in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.
***REFERENCE**	:	EE/BTP/BBMP/E-PMT/207/2015-16 Dated: 12.02.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	25.02.2016
PERIOD OF TESTING	:	25.02.2016 to 27.02.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	445 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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****

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Job No.: CTCE/BBMP/KRSK/W.No.09/CSR-02/10811/SAND-Gradation/2015-16 : 27.02.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K.R. Santhosh Kumar,**
# 04, 1st A Main, V. Pura, AVR Block, Virupakshapura, Vidyaranyapura (P), Bangalore.

*** Name of Work** : Construction of balance storm water drain at Ganeaeshwara Layout in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/207/2015-16 Dated: 12.02.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 25.02.2016

Date of Testing : 27.02.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.64	90-100	90-100	90-100	95-100
2.36	72.80	60-95	75-100	85-100	95-100
1.18	50.13	30-70	55-90	75-100	90-100
600 Micron	24.82	15-34	35-59	60-79	80-100
300 Micron	12.95	5-20	8-30	12-40	15-50
150 Micron	6.36	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/KRSK/W.No.09/CSR-02/10811/AGG/GR/2015-16 : 27.02.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K.R. Santhosh Kumar,**
# 04, 1st A Main, V. Pura, AVR Block, Virupakshapura, Vidyaranyapura (P), Bangalore.

*** Name of Work** : Construction of balance storm water drain at Ganeaeshwara Layout in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/207/2015-16 Dated: 12.02.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 25.02.2016

Date of Testing : 27.02.2016

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.49	95-100	85-100
20	39.57	30-70	0-20
10	15.99	10-35	0-5
4.75	1.46	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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T-2377

Job No.: CTCE/BBMP/KRSK/W.No.09/CSR-02/10811/CUBE/2015-16 31.03.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

***Agency** : **Mr. K.R. Santhosh Kumar,**
04, 1st A Main, V. Pura, AVR Block, Virupakshapura, Vidyaranyapura (P), Bangalore.

***Name of the work** : Construction of balance storm water drain at Ganeaeshwara Layout in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/207/2015-16 Dated: 12.02.2016

***Sample ID** : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 31.03.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.03.2016	31.03.2016	8.234	503.4	22.37
2	03.03.2016	31.03.2016	8.347	514.6	22.87
3	03.03.2016	31.03.2016	8.469	528.9	23.51

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T-2377

Job No.: CTCE/BBMP/KRSK/W.No.09/CSR-02/10811/CUBE/2015-16 05.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

***Agency** : **Mr. K.R. Santhosh Kumar,**
04, 1st A Main, V. Pura, AVR Block, Virupakshapura, Vidyaranyapura (P), Bangalore.

***Name of the work** : Construction of balance storm water drain at Ganeaeshwara Layout in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/207/2015-16 Dated: 12.02.2016

***Sample ID** : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 05.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.03.2016	05.04.2016	8.417	510.6	22.69
2	08.03.2016	05.04.2016	8.269	484.9	21.55
3	08.03.2016	05.04.2016	8.352	498.2	22.14

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Job No.: CTCE/BBMP/KRSK/W.No.09/CSR-02/10811/CUBE/2015-16 11.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

***Agency** : **Mr. K.R. Santhosh Kumar,**
04, 1st A Main, V. Pura, AVR Block, Virupakshapura, Vidyaranyapura (P), Bangalore.

***Name of the work** : Construction of balance storm water drain at Ganeaeshwara Layout in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/207/2015-16 Dated: 12.02.2016

***Sample ID** : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 11.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2016	11.04.2016	8.156	495.2	22.01
2	14.03.2016	11.04.2016	8.247	503.6	22.38
3	14.03.2016	11.04.2016	8.393	518.7	23.05

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

***Agency** : **Mr. K.R. Santhosh Kumar,**
04, 1st A Main, V. Pura, AVR Block, Virupakshapura, Vidyaranyapura (P), Bangalore.

***Name of the work** : Construction of balance storm water drain at Ganeaeshwara Layout in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/207/2015-16 Dated: 12.02.2016

***Sample ID** : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 12.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.03.2016	12.04.2016	8.347	489.3	21.75
2	15.03.2016	12.04.2016	8.462	504.2	22.41
3	15.03.2016	12.04.2016	8.274	478.6	21.27

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Job No.: CTCE/BBMP/KRSK/W.No.09/CSR-02/10811/CUBE/2015-16 15.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

***Agency** : **Mr. K.R. Santhosh Kumar,**
04, 1st A Main, V. Pura, AVR Block, Virupakshapura, Vidyaranyapura (P), Bangalore.

***Name of the work** : Construction of balance storm water drain at Ganeaeshwara Layout in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/207/2015-16 Dated: 12.02.2016

***Sample ID** : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 15.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.03.2016	15.04.2016	8.257	512.8	22.79
2	18.03.2016	15.04.2016	8.163	497.6	22.12
3	18.03.2016	15.04.2016	8.348	523.4	23.26

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Job No.: CTCE/BBMP/KRSK/W.No.09/CSR-02/10811/CUBE/2015-16 21.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

***Agency** : **Mr. K.R. Santhosh Kumar,**
04, 1st A Main, V. Pura, AVR Block, Virupakshapura, Vidyaranyapura (P), Bangalore.

***Name of the work** : Construction of balance storm water drain at Ganeaeshwara Layout in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/207/2015-16 Dated: 12.02.2016

***Sample ID** : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 21.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.03.2016	21.04.2016	8.284	496.7	22.08
2	24.03.2016	21.04.2016	8.375	508.4	22.60
3	24.03.2016	21.04.2016	8.462	520.3	23.12

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Job No.: CTCE/BBMP/KRSK/W.No.09/CSR-02/10811/CUBE/2015-16 23.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

***Agency** : **Mr. K.R. Santhosh Kumar,**
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***Name of the work** : Construction of balance storm water drain at Ganeaeshwara Layout in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/207/2015-16 Dated: 12.02.2016

***Sample ID** : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 23.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.03.2016	23.04.2016	8.163	486.3	21.61
2	26.03.2016	23.04.2016	8.274	493.8	21.95
3	26.03.2016	23.04.2016	8.362	510.7	22.70

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T-2377

Job No.: CTCE/BBMP/KRSK/W.No.09/CSR-02/10811/CUBE/2015-16 24.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

***Agency** : **Mr. K.R. Santhosh Kumar,**
04, 1st A Main, V. Pura, AVR Block, Virupakshapura, Vidyaranyapura (P), Bangalore.

***Name of the work** : Construction of balance storm water drain at Ganeaeshwara Layout in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/207/2015-16 Dated: 12.02.2016

***Sample ID** : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 24.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.03.2016	24.04.2016	8.157	486.2	21.61
2	27.03.2016	24.04.2016	8.269	494.7	21.99
3	27.03.2016	24.04.2016	8.342	511.3	22.72

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRSK/W.No.09/STEEL/2015-16 27.02.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. K.R. Santhosh Kumar,** # 04, 1st A Main, V. Pura, AVR Block, Virupakshapura, Vidyaranyapura (P), Bangalore.
Name of the Work	:	Construction of balance storm water drain at Ganeaeshwara Layout in Ward No. 09, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-PMT/207/2015-16 Dated: 12.02.2016
Date of Test	:	27.02.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	511	553	13.10	O.K	O.K

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